630.5
A49 v.47
8725

CONTENTS OF VOLUME FORTY-SEVEN.

Titles of articles illustrated by diagrams or engravings are followed by a (*). Articles referring to Horses, Cattle, Sheep, Swine, Poultry, Insects, Animal Ailments, Plants and Flowers, Weeds, Books, etc., are indexed under those heads. Subjects treated in the Household department, Boys and Girls, and under Humbugs, are separately indexed.

A

Agriculture, A Secretary of, 350—in India, 439—Government Aid to, 351—Surplus Products of American, *395—Tropical, 50.
Agricultural Department, the English, 143—Inventions, How to Patent, 349—Patents on, 477—Schools, Elementary, 10.
Aliens and Land.....62
Allen, Lewis F.....*49
Alps, Early Morning in the...*194
Animal, To Rescue a Mired, 106—Needs at This Season of the Year, 468.
Animals, Convalescent, Care of, 372—Docility from Kindness, 573—Farm, of the World, 12—Mental and Physical Happiness in, 256—No Profit in Wintering Poor, 420—Warming Water for Farm, 559.
Apiarists, Competent, Are Scarce, Why.....364
Apple Butter, Making.....432
Apple Pomace as a Stock Food.....326
Asparagus Bed, Mending, 586—Raising, 144.
Apple, Grange, The,*375—Munich, The, *56—Wolf River, *95.
Apples and Canned Fruits, Our, 340—Onions, Keeping, 586—Marketing, 365—Sour, for the South, 332.
Artichokes, Eradicating..441-587
Ash Box, A Safe.....512
Ashes in the Garden, 233—Save the Wood, 461.
Asparagus Bed, Care of the, 236—Salt for, 419.
Autumn Measures.....383
Axolotl, About the.....*347
ANIMAL AILMENTS:
Cattle: Abscesses, Treatment for, 358—Bloody Milk in, 197—Broken Horns in, 59—Leg, 285—Black Leg in Calves, 241—Catarrhal Mammitis, 285—Cold Horns, 197—Cow Pox, 358—Diarrhea in, 15—Foul in the Foot, 15—Heifer, Treatment of a, 105—Hoose in Calves, 285—Kicking, to Prevent a Cow From, 59-562—Loco Poisoning, 285—Lump in a Cow's Udder, 197—Mange, 197—Milking Before Calving, 241—Out of Sorts, 59—Plague, New Facts About the, 332—Pleuro-Pneumonia, Contagious, *234—Prevention Versus Specifics, 444—Teat, Injured, 241—Leaky, 59—Obliterated, 15—Warts on Cows, 197—Texas Fever, 593—Udder Swelled, 593.
Dogs: Cough in, 105—Hiccough in, 149—Kennel Lameness, 197—Mange, Remedy for, 260—Watery Eyes in, 15.
Fowls: Chicken Cholera and its Prevention, 564—Diseases of Young—Prevention and Care, 426—Indigestion in, 586—Sore Eyes in, 149.
Horses: Abortion in Mares, 105—Blistering, 444—Bone Spavin, 15—Catarrh in Nasal, 149—Cribbing and Wind Sucking, 358—Feed for Colts, 358—Foot, Contraction of the, 149—Heel, Injured, 563—Hide-bound Albuminuria, 149—Knee Sprung, 59—Medicines, Doses of, 105—Rickets or Rachitis, 285—Rubbing off the Mane, 593—Sore Shoulders, Protection for in, *141—Staggers, 197—"Stopping" Feet, 468—Swollen Legs and Scratches in, 149—Thumps, 105—Warts on Colt's Nose, 59—Withers Fistulous, 59.
Sheep: Blind Staggers in.....241
Swine: Constipation in, 149—Pneumonia in, 358—Sun Scald in Pigs, 241.

B

Bag Holder, An Automatic..*106
Barn, Evolution of a Dakota, *476 for one Horse, *19-*141—for two Horses, *329—for $300, A Small, *289—Hoist for a, *565—Horse and Carriage, *233—Octagon, A Small, *63—Octagon, A Capacious, *415—with a Basement, *109.
Barn Door Fastener, A Convenient, *203—Automatic, *61.
Barley, 141—Culture, New Developments, 412.
Barrow and Fork, Light...*. 54
Bee Notes for Jan., 2; Feb., 46; March, 120; April, 164; May, 214; June, 258; Sept., 398.
Bees, Care of, in winter, 564—Feeding in Spring, 152—Foreign and their Importation, 332—Frame Hives for, and Management of, 278—In Surplus Boxes, 444—Preparing for Winter Quarters, 421—Robbery Among, 140—Selecting Breeders, 103—Straight Combs, How to Have, 476—Swarming Boxes for, 194—Winter Provision for, 467.
Beans, Boston Baked, 330—Culture of, 192.
Birds, Remember the.....20
Books, A, B, C of Agriculture, 32—Dictionary of Politics, 402—Gardening for Pleasure, 32—Home Fish'ng and Home Waters, 32—Homes, our, How to Beautify Them, 32—Keeping One Cow, 223—Manual, The Dairyman's, 223—Parsons on the Rose, 223—Swine Husbandry, 451—Truck Farming at the South, 451.
Boys, A Talk With.....390
Boys, Our Farmer.....185
Breaks, Prepared for.....110
Buffalo, Domestication of the.....*561
Bull, Ephraim Wales, Originator of Concord Grape Vine....*323
Business, Matters of.....588
BOYS AND GIRLS' COLUMNS:
A All Fools' Day, 161.
B Beasts and Birds, Buried, 28—Bird, How to Skin a, *437—Boy Who Leaves the Farm, The, 485—Boy to Make, Something for a, 581—Brazilian Oxteam and Cart, *162.
C Charade, Geographical, 162—Cripples, the Little, *485.
D Dogs, Training Newfoundland, 581—Dwarf, A Famous, 582.
Doctor's Talks:—Animals, About the Study of, *27—Buttercups and their Cousins, *209-*299-*348—Dandelion and Daisy, *389—Flowering Plants and Flowerless Plants, *253—Games, A Couple of Little, 27—Ox eye Daisy, 448—Wasps, About, *71—Wood Collections, *117—Woods in April, *161.
E Eagle, the White-headed, *118
G Girls, A Word to the, 161—Favorite Play Ground, The, 486—Little, Christmas Work, *582—Young, A Word to, 71.
H Hares, Merry Brown, *72—History, Nuggets of, 486.
K King's Daughters, The, 28—
M May, In the Merry Month of, *208—Musical, Miss Mousey's, *346.
O Oakley's, Margaret, Letter to
P Santa Claus, *581—Prairie Dogs and Their Young, *251—
S Puzzles, About, 580—Skates in Order, Are the, 27—Strawberry King, *252—Spreckles's, Mr., Long Nap, 582.
Stories:—Boys of Glenmore, 28—Christy and the White Dove, *484—Cow, The Turtle's, *210—Dick, Dandy's Brother, *116—Hezekiah's Capture, *26—Jumbo, *254—Luke Sharp's Quarter, *296—Santa Claus's Sleigh Trip with, *579—Simple Tim, *387—Warren Boyd's Heroism, *436—Woman, A Remarkable, *70.
V Violets, Little Hattie's, *160—
W Word Squares, 297—Wren,
Y Little King, 486—Yankee Doodle, Origin of, 438.

C

Cabbages, The Cultivation of.274
Canals, Protecting the Banks of Irrigation.....378
Capons as Nurses.....102
Cart-Hand, A Farm.....*198
Castor Oil Bean, Culture of the.....201
Catfish, Habits and Culture of the.....50
Cattle—*Calves:* For the Dairy, Raising, 64—Forcing, 470.
Cattle—*Cows:* For the Family, 6—Short Horn Dairy, *273—Stabling the Family, 7—The Highway, 291—The Minister's, 414.
Cattle, Aberdeen-Angus, Polled, *151—Best for the Plains, 91—Breton Race of, *235—Bull Netherland Prince, *716—Chain Fastening for, *565—Charolaise of France, *201—Dehorning Beef, 412—Harz, *7—Inbreeding with Jersey, *65—Improvements of Southern, 21—Interests, Outlook for our, 3—Long Horned Breed of, *337—Kerry Breed of, *417—of Northern Italy, *377—over Production of, 137—Red Polls, Improved the, *555—Sheds for, in Summer, 289—Sussex Breed of *275—West Highland, *107.
Cattle Crib.....*418
Celery, Care of, in Winter...562
Census, Faults of the.....163
Cheese, And Rennets in France, 439—Brie, 55—Composition of, 12—Fancy, 6—French, A New Kind of, 569—Roquefort, Manufacture of, 109—Spots on, 586
Cheese Factories in Maine...416
Children on the Farm, A Plea for.....514
Christmas Morning song.....583
Cider Making and Refining...474
Cions, Care of, 66—Cutting, 104—When to Cut, 489.
Clover Mammoth or Peavine.466
Cocklebur, Eradicating the..338
Coffee Culture in India, 246—for Profit and Ornament, 342.
Cold Frames.....60
College, American Veterinary.164
Comparative Figures, Some Useful.....144
Corn Marker, An Adjustable.*203
Corn, Kaffir, 565—Now for a Big Crop of, 185—Selecting and Saving Seed, 336, Proper Selection and Care of Seed, *363—Preserving the Vitality of Seed, 424—Unplucked for the Silo, 326.
Cottage, A Village or Suburban to Cost $2500, *245—$1300, *6—$3500, *571—$3400, *100—$3500, *277.
Cranberries.....11
Creamery in the North-west, 422—Dakota, A. *559.
Cress, Winter or Upland.....65
Crop Figures, Comparative....50
Crop Reports, The Monthly, April, 164; May, 214; June, 258; July, 302; August, 357; September, 398; October, 444.
Crop Rotation, Benefits of...476
Crops, Diversified, 244—Good, in Unfavorable Seasons, 92—in New Jersey, 439—Mean Double Profits, Double Crops, 283—New in Texas, 439—of the Year, The, 443—through the Country, Condition of, 30—Which Shall it be, Weeds or Useful, 337.

D

Dakota, Borrowing Money in.439
Dairy, Churning in the Home. 7—Interests, British, 380—Products and "Oleo," Our, 337—Problems, Some, 375.
Dairying, Milk, 107—Preparations for Winter, 283.
Dandelion, The; its Cultivation.....18
Dealing Direct.....350
Desert, to Irrigate.....280
Dogs, Scotch and Skye terriers, *291—Setter, *111.
Donkeys, Spanish, Another Importation of.....586
Dwelling, Farm or Suburban Costing $2000, 198—$3500, *367

E

Egg Basket, A Secure....*..152
Egg Hatching, Artificial...*..556
Eggs at Two Cents a Dozen, 231—in Cold Weather, 468—Preserving, 488.
Electric Light and Plants.....22
Elk, the Moose or American..138
Empire in the North-west, A New.....*..373
Ensilage for the Prairie States, 258—How to Secure Cheap, 428
Evener, Three-Horse.....*..418
Experiment, A Misleading...590
Exercise Promotes Health..102
Exposition, French International.....452

F

Fairs, Are you Ready for the, 341—In 1888, 352.
Farm Accounts, the Keeping of.....47-584
Farm buildings and Animals in a Blizzard, Protection of..*..281
Farm House, A Small.....*..54
Farm-Sled, Home-Made.....61
Farm Water Works.....570
Farm, Dairy, Choice of, *60—Lake Side and Herd, *459—Mortgage the, Don't, 560—Produce, Home Market for, 584—Pays its Own Bills, How a New England, 470—the Most Profitable Land on the, 394.
Farm and Garden Work for Jan., 2; Feb., 46; March, 88; April, 136; May, 184; June, 229; July, 272; Aug., 322; Sept., 362; Nov., 458.
Farms, Here and Abroad, 96—Japanese, A Drive Among, 411-462.
Farmer, The, and His Labor Alliance.....150
Farmers, Distress Among Belgian, 487—in the United States Senate, 511—Successful Co-operation Among, 470—The Oldest American, 279.
Farmers' Unhonored Friends, The.....330
Farmers' Club, New York, 164—What one Did, 49.
Farmer's Daughters, A Word to, 229—Debts, 5.
Farming in Colorado, Past and Present, 420—in Foreign Lands, 391-446-500-597—in the Red River Valley, 326—Journals in the Forties and Now, 566—Mistakes in Colorado, 499—What Science Has Done for, 333.
Fence, Build a Picket, to, *152—Corners, Proper, 152—Pole and Wire, *98—Portable Panel, *276 Row, My Neighbors', 288—Tightening, *379.
Fence, Wire and Picket...*..106
Fertilizers, Commercial, in the Garden, 136—Value of, 229.
Fire Department, Farm.....419
Fires, Preventing.....340
Fish Culture, Practical for Farmers, 185—Eggs, Natural Development of, 3—For Ponds, the kinds of, 273—Guano, 586—Great Lake Dog, 339—Muscalonge, Artificial Propagation of the, 366—Nature's Protection of, by Color, 137—When Caught, How to Care for, 425.
Flail, A Dakota.....374
Flower Beds, Carpet and Ribbon.....*..22
Flower Garden and Lawn, March, 88; April, 136; May, 214; June, 228; July, 272; August, 322; September, 362; October, 410—November, 458; December, 554.
Flower Garden, Our, the Coming Season.....91
Flower Shows, Special.....54
Flowers (see also Plants)—Bladder Nut, *205—Calypso, The Northern, *292—Cinquefoil, the Shrubbery, *156—Clematis, a New, 431—Currants, The Ornamental, *204—Dandelions and Sage, 343—Dahlia Imperialis, 460—Freesias, Interesting Cape Bulbs, *342—Fuchsias, Pyramidal, 21—Granadilla, The, 343—Groundsel, A Beautiful, *112—Lily Culture, Modern, 479—of the Valley, in Germany, 488—Metre Wort, the False, *204—Narcissus, Old, New and Rare, *189—Pansies, Winter Protection of, 568—Paeonies, Herbaceous and Tree, *248—Pink, the, of the Glaciers, *479—Pinks, Carnations and Picotees, 431—Poppies, How to Have Early, 431—Primroses, The Evening, *156 Rose Bush, Protecting A, 14—the Many Flowered, *343—Ranunculus, The Garden, *113.
Flowers, Specialties in, 192—Star of Bethlehem, the Arabian, *292—Star Flower, The, *204—Valerian Greek, *205—Verbenas, Roses and Grapes, 488—Veronica, The Japanese, *112—Violets, Bedding, *23—Zinnia, The, *23.
Florida, A New County in....487
Fodder Crops for a small Piece of Ground, Rotation of.....232
Forage Plant, A New.....586
Forestry, Practical.....91
Fruit, Assorting, *379—Dryer, A Home-Made, 386—Evaporator, Points from an Expert, 376—Product of Evaporated, 92—Preserving Houses Without Ice, 144—Refrigerator Houses, 102—Trade, Honesty in the, 443—Wastes of, 394.
Fruits and Vegetables, Washington Territory, 364—Best Uses for Surplus, 366—Our Canned, 248.
Fruit Trees, Winter Protection of.....558

G

Garden in Arizona, A.....*..67
Gardening, Farm.....140
Gate Hinges and Brace, Strong.....*..419
Glass Jars Better than Tin for Canning.....376
Gold Fish, The Care of.....230
Gooseberry, Barbadoes, The.*572
Grains, How many, to the Hill.244
Grafting—Does the Cion affect the Stock, *156—In-Door Root, 62.
Grain and Stover, Burning...573
Grainfields, Screenings From the.....413
Grape, A New Hardy, the Mills, *145—Concord, History of the, 423—Culture in Canada, 378—Moyer, The, *237.
Grapes, Keeping During Winter.....421
Grapevines, Pruning.....475
Grass, Crested Dog's Tail, The, *60—Seeding to, 489.
Grasses, Essentials in Good..464
Gray, Asa, The Life of—His Death.....*..99
Green, Seth.....*..442
Greenhouse and Window Plants, Jan. 2; Feb., 45; March, 88; April, 136; May, 214; June, 228; July, 272; Aug., 322; Sept., 398; Oct., 410; Dec. 554.

H

Hand, Educate the.....394
Harness and Saddle, The, 233—Care of, 11—The Fit of, 239.
Harrows, Shoes for Moving..*374
Harrowing and Rolling.....212
Hay and Forage Crops, 8—and Harvest, 274—Baling, 418—Making, Hints on, 300.
Hay-Rack and Feed Trough..*289
Hedge, Barbary, A.....586
Heeling in.....475
Hilgard, Prof. E. W.....*..423
Hog House of a Western Expert.....*..328
Holiday Words.....574
Holidays, Fair and Unfair....212
Home of the Prairie Pioneer.*153
Homes, Making, in Washington Ter.....12
Honey, Extracted, 371—Marketing, 50.
Hop Culture on the Pacific Coast, 430—Pickers, Indian, in Washington Territory, 473.
Husking Glove.....*..418
Horse, Buffalo Bill's Charlie, *365—Colt, Begin on the, 287—Fayette Wilkes, the Road Stallion, 287—Feeding the Family, 190—Grooming a, 562—Guy, the Road Gelding, 569—Halter Pulling, 148—in the Stable, The, 19—Percheron, The Coming, 48—Prize Stallion, Escamillo, *331—Rein for a Leading, *328—Reins, the, How to Hold, *242—Riding and Driving, Good Rules for, 238—Shoeing, Bad and Good, 426—Selecting the Family, 287 Stabling the Family, A Veteran's View of, 101—Watering and Grooming the Family, 152—West Australian, and His Descendants, *425—Dutch Trotting Race, 16—Englishire in America, *57—Exercise for, in Winter, 572—Farm, Care of, 273—Filly, A Noted Cleveland, *11—Feeding and Watering, 57—Hackney, *238—High-Priced, *238,—in Hot Weather, 330—Messenger—Morgan Cross, *101—Percheron, * 143—Clipping in Cold Weather, 463—Cultivating Colt Courage, 570—Shoeing, Hints on, 239—Suffolk-Punch Breed of, *191.
Horseradish.....277
Horticulture on the Plains...98
Horticultural Society, The Royal.....237
House Costing $3400, A Country.....*..339
Houses, Prairie Grass.....101

HOUSEHOLD THE:
B Baby Loving the, 294—Bag for Soiled Collars and Cuffs, *207—Hanging Piece, *432—Bed Quilt, Embroidered, *575—Bed Spread, A Novel, *344—Blue Jay, The American, 575—Bonnets and Round Hats, Spring, 206—Book Holder, A Wire, *69—Border, A Handsome Drawn Work, *158—Bulbs for the Sitting Room, 578.
C Cabinet, Wall, China, *25—Calendar, A Perpetual, *25—Canaries, Paste for Young, 574—Carpets, Putting Down, *384—Case, Comb and Brush, A Serviceable, *432—Handkerchief, A Novel, *115—Catch-All, A Birch Bark, *24—Chair Bottom, Home-made, 159—Chairs, Fancy, Home-made, 432—Church, A Quaint Old, *434—Children's Corners, 250—Something to do, 435—Chocolate, 295—Christmas Greens, *577—Christmas, Merry, A, 574—Christmas Gifts for Small Purses. 577—Gifts, A Variety of, *575—Clothesline, Ornamental Supports for a, *294—Cobwebs, Ornamental, *294—Convalescents, Care of, 435—Tempting Food for, 481—Crochet and Knitting, 384—Cushion, A Neat Hair-pin, *250—Hanging Pin, *576.
D Damper, How to Use a, 578—Dishcloth, A Knitted, 483—Dresses, for Midsummer, Inexpensive, 345—Dumb Waiter, A Farmhouse, *207.
E Edge, Knitted, 483—Wide Knitted, 69—Embroidery, Perforated Felt, *206—Damask, *344.
F Family Anniversaries, Remember the, 114—Flour Chest, A Convenient, *68-*159—Fashions, Early Fall, 385—For Little Women, 574—Fashions, Juvenile, 68—in Hats and Cloaks, 483—Summer, 294—the World of, 14.
H Head-rest, A Comfortable, *294—Holder, A Neat Coffee Pot, *433—Holiday Words, 574—Home, Woman's Realm, 250—Housekeeping, Ideal, 206
J Jet Ornaments, Home-made,
L *384—Lace, Fan, *480—Irish, *480—Weaver Bird's, *576—Little Folks Are Wearing, What, 250.
M Mats, Sea Shell Vase, 518—Mantel Drapery, Ornamental, *68—Medallions, Crocheted, 25—Mirror Ribbons, *114—Money, Teach Children the Proper Use of, 68—Mothers, Timely Hints for, 575.
N Napkin, Fancy, *294—Needle Book and Button Bag, *251—A Celluloid, *206—Night Caps, 384—Novelties, 481.
P Paper Rack, A Pretty, *344—Picture Frame, Home-made, *114—Pillow Shams, Pretty, *385.
Q Quickly Made and Useful
R Things, 24—Reading, A Word to Mothers About, 574—Robe, A Handsome Carriage, *385—Sachet Powders, 480—Sachet, 386—Scarf, Chair, *433—Socks, Crocheted, *295—Schooner, The Prairie, *482—See, Learning to, *482—Sofa Cushion, A Handsome, *251—Screen, Threefold, *114—Shelf, A Convenient, *115—Sideboard, a Bureau, *69—Sleeve Holder, A Serviceable, *206—A, *433—Something to be Thankful for, 481—Spring Styles, 158—Sponge Bag, Water Proof, *576—Stockings, How Came Into Use, 480—Stocking Legs, Economical Use of, 481—Summer Resort, An Inexpensive, 435.
T Table, Kitchen, A Home made, *207—Tidy, A Serviceable, *345—Towels, Fancy, *345—Traveling Case, A Convenient, *250—Trap, A Good Animal, *251—Tray, Sachet, for Jewelry, *115—Trimming, A Neat Knitted, *24—Truths Briefly Stated, 482.
U Unnecessary Work, 344—
W Wall Closets, Ornamental Hangings for, *24—Wall Protector, Lace Trimmed Linen, *25—What to Wear in October, 433—Whisk Broom Case, An Ornamental, *158—Whisk Holder, A Guitar, *69—Work Basket, An Inexpensive, *295—Window Curtain, A Novel, *68—Winter Gowns and Cloaks, 24—Wood, Burning Dry, 576—Work Bag, A Neat, *385.

Recipes: Apoquinimies, Lady Skipwith's, 386—Apple Compote, 386—Beefsteak, Spanish Style, 435—Boston Brown Bread, 159 Breakfast Cakes, Indian, 24—Cake, Brown Sponge, 159—Cakes, Almond Cheese, 386—Chicken, Fillet of, 69—Chickens, Boiled, With Celery Sauce, 578 Crescents, Vanilla, 25—Crullers, Rich, 435—Drink for a Convalescent, A Delicious, 159—Eggs, Baked, 345—Beauregard, 345—Fritters, Spanish, 25—Game Pie, 483—Giblet Soup, 483—Gingerbread, 345—Nuts, 386—Goose, Braised, 483—Haddock, Baked, 295—Halibut Fillets, 115

630.5
A49 v.47
8725

CONTENTS OF VOLUME FORTY-SEVEN.

Titles of articles illustrated by diagrams or engravings are followed by a (*). Articles referring to Horses, Cattle, Sheep, Swine, Poultry, Insects, Animal Ailments, Plants and Flowers, Weeds, Books, etc., are indexed under those heads. Subjects treated in the Household department, Boys and Girls, and under Humbugs, are separately indexed.

A

Agriculture, A Secretary of, 350—in India, 439—Government Aid to, 351—Surplus Products of American, *395—Tropical, 50.
Agricultural Department, the English, 143—Inventions, How to Patent, 349—Patents on, 477—Schools, Elementary, 10.
Aliens and Land.....62
Allen, Lewis F.....*49
Alps, Early Morning in the...*194
Animal, To Rescue a Mired, 106—Needs at This Season of the Year, 468.
Animals, Convalescent, Care of, 372—Docility from Kindness, 573—Farm, of the World, 12—Mental and Physical Happiness in, 256—No Profit in Wintering Poor, 420—Warming Water for Farm, 559.
Apiarists, Competent, Are Scarce, Why.....364
Apple Butter, Making.....432
Apple Pomace as a Stock Food.....326
Asparagus Bed, Mending, 586—Raising, 144.
Apple, Grange, The,*375—Munich, The, *56—Wolf River, *95.
Apples and Canned Fruits, Our, 340—Onions, Keeping, 586—Marketing, 365—Sour, for the South, 332.
Artichokes, Eradicating..441-587
Ash Box, A Safe.....512
Ashes in the Garden, 233—Save the Wood, 461.
Asparagus Bed, Care of the, 236—Salt for, 419.
Autumn Measures.....383
Axolotl, About the.....*347
ANIMAL AILMENTS:
Cattle: Abscesses, Treatment for, 358—Bloody Milk in, 197—Broken Horns in, 59—Leg, 285—Black Leg in Calves, 241—Catarrhal Mammitis, 285—Cold Horns, 197—Cow Pox, 358—Diarrhea in, 15—Foul in the Foot, 15—Heifer, Treatment of a, 105—Hoose in Calves, 285—Kicking, to Prevent a Cow From, 59-562—Loco Poisoning, 285—Lump in a Cow's Udder, 197—Mange, 197—Milking Before Calving, 241—Out of Sorts, 59—Plague, New Facts About the, 332—Pleuro-Pneumonia, Contagious, *234—Prevention Versus Specifics, 444—Teat, Injured, 241—Leaky, 59—Obliterated, 15—Warts on Cows, 197—Texas Fever, 593—Udder Swelled, 593.
Dogs: Cough in, 105—Hiccough in, 149—Kennel Lameness, 197—Mange, Remedy for, 260—Watery Eyes in, 15.
Fowls: Chicken Cholera and its Prevention, 564—Diseases of Young—Prevention and Care, 426—Indigestion in, 586—Sore Eyes in, 149.
Horses: Abortion in Mares, 105—Blistering, 444—Bone Spavin, 15—Catarrh in Nasal, 149—Cribbing and Wind Sucking, 358—Feed for Colts, 358—Foot, Contraction of the, 149—Heel, Injured, 563—Hide-bound Albuminuria, 149—Knee Sprung, 59—Medicines, Doses of, 105—Rickets or Rachitis, 285—Rubbing off the Mane, 593—Sore Shoulders, Protection for in, *141—Staggers, 197—"Stopping" Feet, 468—Swollen Legs and Scratches in, 149—Thumps, 105—Warts on Colt's Nose, 59—Withers Fistulous, 59.
Sheep: Blind Staggers in.....241
Swine: Constipation in, 149—Pneumonia in, 358—Sun Scald in Pigs, 241.

B

Bag Holder, An Automatic..*106
Barn, Evolution of a Dakota, *476 for one Horse, *19-*141—for two Horses, *329—for $300, A Small, *289—Hoist for a, *565—Horse and Carriage, *233—Octagon, A Small, *63—Octagon, A Capacious, *415—with a Basement, *109.
Barn Door Fastener, A Convenient, *203—Automatic, *61.
Barley, 141—Culture, New Developments, 412.
Barrow and Fork, Light...*. 54
Bee Notes for Jan., 2; Feb., 46; March, 120; April, 164; May, 214; June, 258; Sept., 398.
Bees, Care of, in winter, 564—Feeding in Spring, 152—Foreign and their Importation, 332—Frame Hives for, and Management of, 278—In Surplus Boxes, 444—Preparing for Winter Quarters, 421—Robbery Among, 140—Selecting Breeders, 103—Straight Combs, How to Have, 476—Swarming Boxes for, 194—Winter Provision for, 467.
Beans, Boston Baked, 330—Culture of, 192.
Birds, Remember the.....20
Books, A, B, C of Agriculture, 32—Dictionary of Politics, 402—Gardening for Pleasure, 32—Home Fish'ng and Home Waters, 32—Homes, our, How to Beautify Them, 32—Keeping One Cow, 223—Manual, The Dairyman's, 223—Parsons on the Rose, 223—Swine Husbandry, 451—Truck Farming at the South, 451.
Boys, A Talk With.....390
Boys, Our Farmer.....185
Breaks, Prepared for.....110
Buffalo, Domestication of the.....*561
Bull, Ephraim Wales, Originator of Concord Grape Vine....*323
Business, Matters of.....588
BOYS AND GIRLS' COLUMNS:
A All Fools' Day, 161.
B Beasts and Birds, Buried, 28—Bird, How to Skin a, *437—Boy Who Leaves the Farm, The, 485—Boy to Make, Something for a, 581—Brazilian Oxteam and Cart, *162.
C Charade, Geographical, 162—Cripples, the Little, *485.
D Dogs, Training Newfoundland, 581—Dwarf, A Famous, 582.
Doctor's Talks:—Animals, About the Study of, *27—Buttercups and their Cousins, *209-*299-*348—Dandelion and Daisy, *389—Flowering Plants and Flowerless Plants, *253—Games, A Couple of Little, 27—Ox eye Daisy, 448—Wasps, About, *71—Wood Collections, *117—Woods in April, *161.
E Eagle, the White-headed, *118
G Girls, A Word to the, 161—Favorite Play Ground, The, 486—Little, Christmas Work, *582—Young, A Word to, 71.
H Hares, Merry Brown, *72—History, Nuggets of, 486.
K King's Daughters, The, 28—
M May, In the Merry Month of, *208—Musical, Miss Mousey's, *346.
O Oakley's, Margaret, Letter to
P Santa Claus, *581—Prairie Dogs and Their Young, *251—
S Puzzles, About, 580—Skates in Order, Are the, 27—Strawberry King, *252—Spreckles's, Mr., Long Nap, 582.
Stories:—Boys of Glenmore, 28—Christy and the White Dove, *484—Cow, The Turtle's, *210—Dick, Dandy's Brother, *116—Hezekiah's Capture, *26—Jumbo, *254—Luke Sharp's Quarter, *296—Santa Claus's Sleigh Trip with, *579—Simple Tim, *387—Warren Boyd's Heroism, *436—Woman, A Remarkable, *70.
V Violets, Little Hattie's, *160—
W Word Squares, 297—Wren,
Y Little King, 486—Yankee Doodle, Origin of, 438.

C

Cabbages, The Cultivation of.274
Canals, Protecting the Banks of Irrigation.....378
Capons as Nurses.....102
Cart-Hand, A Farm.....*198
Castor Oil Bean, Culture of the.....201
Catfish, Habits and Culture of the.....50
Cattle—*Calves:* For the Dairy, Raising, 64—Forcing, 470.
Cattle—*Cows:* For the Family, 6—Short Horn Dairy, *273—Stabling the Family, 7—The Highway, 291—The Minister's, 414.
Cattle, Aberdeen-Angus, Polled, *151—Best for the Plains, 91—Breton Race of, *235—Bull Netherland Prince, *716—Chain Fastening for, *565—Charolaise of France, *201—Dehorning Beef, 412—Harz, *7—Inbreeding with Jersey, *65—Improvements of Southern, 21—Interests, Outlook for our, 3—Long Horned Breed of, *337—Kerry Breed of, *417—of Northern Italy, *377—over Production of, 137—Red Polls, Improved the, *555—Sheds for, in Summer, 289—Sussex Breed of *275—West Highland, *107.
Cattle Crib.....*418
Celery, Care of, in Winter...562
Census, Faults of the.....163
Cheese, And Rennets in France, 439—Brie, 55—Composition of, 12—Fancy, 6—French, A New Kind of, 569—Roquefort, Manufacture of, 109—Spots on, 586
Cheese Factories in Maine...416
Children on the Farm, A Plea for.....514
Christmas Morning song.....583
Cider Making and Refining...474
Cions, Care of, 66—Cutting, 104—When to Cut, 489.
Clover Mammoth or Peavine.466
Cocklebur, Eradicating the..338
Coffee Culture in India, 246—for Profit and Ornament, 342.
Cold Frames.....60
College, American Veterinary.164
Comparative Figures, Some Useful.....144
Corn Marker, An Adjustable.*203
Corn, Kaffir, 565—Now for a Big Crop of, 185—Selecting and Saving Seed, 336, Proper Selection and Care of Seed, *363—Preserving the Vitality of Seed, 424—Unplucked for the Silo, 326.
Cottage, A Village or Suburban to Cost $2500, *245—$1300, *6—$3500, *571—$3400, *100—$3500, *277.
Cranberries.....11
Creamery in the North-west, 422—Dakota, A. *559.
Cress, Winter or Upland.....65
Crop Figures, Comparative....50
Crop Reports, The Monthly, April, 164; May, 214; June, 258; July, 302; August, 357; September, 398; October, 444.
Crop Rotation, Benefits of...476
Crops, Diversified, 244—Good, in Unfavorable Seasons, 92—in New Jersey, 439—Mean Double Profits, Double Crops, 283—New in Texas, 439—of the Year, The, 443—through the Country, Condition of, 30—Which Shall it be, Weeds or Useful, 337.

D

Dakota, Borrowing Money in.439
Dairy, Churning in the Home. 7—Interests, British, 380—Products and "Oleo," Our, 337—Problems, Some, 375.
Dairying, Milk, 107—Preparations for Winter, 283.
Dandelion, The; its Cultivation.....18
Dealing Direct.....350
Desert, to Irrigate.....280
Dogs, Scotch and Skye terriers, *291—Setter, *111.
Donkeys, Spanish, Another Importation of.....586
Dwelling, Farm or Suburban Costing $2000, 198—$3500, *367

E

Egg Basket, A Secure....*..152
Egg Hatching, Artificial...*..556
Eggs at Two Cents a Dozen, 231—in Cold Weather, 468—Preserving, 488.
Electric Light and Plants.....22
Elk, the Moose or American..138
Empire in the North-west, A New.....*..373
Ensilage for the Prairie States, 258—How to Secure Cheap, 428
Evener, Three-Horse.....*..418
Experiment, A Misleading...590
Exercise Promotes Health..102
Exposition, French International.....452

F

Fairs, Are you Ready for the, 341—In 1888, 352.
Farm Accounts, the Keeping of.....47-584
Farm buildings and Animals in a Blizzard, Protection of..*..281
Farm House, A Small.....*..54
Farm-Sled, Home-Made.....61
Farm Water Works.....570
Farm, Dairy, Choice of, *60—Lake Side and Herd, *459—Mortgage the, Don't, 560—Produce, Home Market for, 584—Pays its Own Bills, How a New England, 470—the Most Profitable Land on the, 394.
Farm and Garden Work for Jan., 2; Feb., 46; March, 88; April, 136; May, 184; June, 229; July, 272; Aug., 322; Sept., 362; Nov., 458.
Farms, Here and Abroad, 96—Japanese, A Drive Among, 411-462.
Farmer, The, and His Labor Alliance.....150
Farmers, Distress Among Belgian, 487—in the United States Senate, 511—Successful Co-operation Among, 470—The Oldest American, 279.
Farmers' Unhonored Friends, The.....330
Farmers' Club, New York, 164—What one Did, 49.
Farmer's Daughters, A Word to, 229—Debts, 5.
Farming in Colorado, Past and Present, 420—in Foreign Lands, 391-446-500-597—in the Red River Valley, 326—Journals in the Forties and Now, 566—Mistakes in Colorado, 499—What Science Has Done for, 333.
Fence, Build a Picket, to, *152—Corners, Proper, 152—Pole and Wire, *98—Portable Panel, *276 Row, My Neighbors', 288—Tightening, *379.
Fence, Wire and Picket...*..106
Fertilizers, Commercial, in the Garden, 136—Value of, 229.
Fire Department, Farm.....419
Fires, Preventing.....340
Fish Culture, Practical for Farmers, 185—Eggs, Natural Development of, 3—For Ponds, the kinds of, 273—Guano, 586—Great Lake Dog, 339—Muscalonge, Artificial Propagation of the, 366—Nature's Protection of, by Color, 137—When Caught, How to Care for, 425.
Flail, A Dakota.....374
Flower Beds, Carpet and Ribbon.....*..22
Flower Garden and Lawn, March, 88; April, 136; May, 214; June, 228; July, 272; August, 322; September, 362; October, 410—November, 458; December, 554.
Flower Garden, Our, the Coming Season.....91
Flower Shows, Special.....54
Flowers (see also Plants)—Bladder Nut, *205—Calypso, The Northern, *292—Cinquefoil, the Shrubbery, *156—Clematis, a New, 431—Currants, The Ornamental, *204—Dandelions and Sage, 343—Dahlia Imperialis, 460—Freesias, Interesting Cape Bulbs, *342—Fuchsias, Pyramidal, 21—Granadilla, The, 343—Groundsel, A Beautiful, *112—Lily Culture, Modern, 479—of the Valley, in Germany, 488—Metre Wort, the False, *204—Narcissus, Old, New and Rare, *189—Pansies, Winter Protection of, 568—Paeonies, Herbaceous and Tree, *248—Pink, the, of the Glaciers, *479—Pinks, Carnations and Picotees, 431—Poppies, How to Have Early, 431—Primroses, The Evening, *156 Rose Bush, Protecting A, 14—the Many Flowered, *343—Ranunculus, The Garden, *113.
Flowers, Specialties in, 192—Star of Bethlehem, the Arabian, *292—Star Flower, The, *204—Valerian Greek, *205—Verbenas, Roses and Grapes, 488—Veronica, The Japanese, *112—Violets, Bedding, *23—Zinnia, The, *23.
Florida, A New County in....487
Fodder Crops for a small Piece of Ground, Rotation of.....232
Forage Plant, A New.....586
Forestry, Practical.....91
Fruit, Assorting, *379—Dryer, A Home-Made, 386—Evaporator, Points from an Expert, 376—Product of Evaporated, 92—Preserving Houses Without Ice, 144—Refrigerator Houses, 102—Trade, Honesty in the, 443—Wastes of, 394.
Fruits and Vegetables, Washington Territory, 364—Best Uses for Surplus, 366—Our Canned, 248.
Fruit Trees, Winter Protection of.....558

G

Garden in Arizona, A.....*..67
Gardening, Farm.....140
Gate Hinges and Brace, Strong.....*..419
Glass Jars Better than Tin for Canning.....376
Gold Fish, The Care of.....230
Gooseberry, Barbadoes, The.*572
Grains, How many, to the Hill.244
Grafting—Does the Cion affect the Stock, *156—In-Door Root, 62.
Grain and Stover, Burning...573
Grainfields, Screenings From the.....413
Grape, A New Hardy, the Mills, *145—Concord, History of the, 423—Culture in Canada, 378—Moyer, The, *237.
Grapes, Keeping During Winter.....421
Grapevines, Pruning.....475
Grass, Crested Dog's Tail, The, *60—Seeding to, 489.
Grasses, Essentials in Good..464
Gray, Asa, The Life of—His Death.....*..99
Green, Seth.....*..442
Greenhouse and Window Plants, Jan. 2; Feb., 45; March, 88; April, 136; May, 214; June, 228; July, 272; Aug., 322; Sept., 398; Oct., 410; Dec. 554.

H

Hand, Educate the.....394
Harness and Saddle, The, 233—Care of, 11—The Fit of, 239.
Harrows, Shoes for Moving..*374
Harrowing and Rolling.....212
Hay and Forage Crops, 8—and Harvest, 274—Baling, 418—Making, Hints on, 300.
Hay-Rack and Feed Trough..*289
Hedge, Barbary, A.....586
Heeling in.....475
Hilgard, Prof. E. W.....*..423
Hog House of a Western Expert.....*..328
Holiday Words.....574
Holidays, Fair and Unfair....212
Home of the Prairie Pioneer.*153
Homes, Making, in Washington Ter.....12
Honey, Extracted, 371—Marketing, 50.
Hop Culture on the Pacific Coast, 430—Pickers, Indian, in Washington Territory, 473.
Husking Glove.....*..418
Horse, Buffalo Bill's Charlie, *365—Colt, Begin on the, 287—Fayette Wilkes, the Road Stallion, 287—Feeding the Family, 190—Grooming a, 562—Guy, the Road Gelding, 569—Halter Pulling, 148—in the Stable, The, 19—Percheron, The Coming, 48—Prize Stallion, Escamillo, *331—Rein for a Leading, *328—Reins, the, How to Hold, *242—Riding and Driving, Good Rules for, 238—Shoeing, Bad and Good, 426—Selecting the Family, 287 Stabling the Family, A Veteran's View of, 101—Watering and Grooming the Family, 152—West Australian, and His Descendants, *425—Dutch Trotting Race, 16—Englishire in America, *57—Exercise for, in Winter, 572—Farm, Care of, 273—Filly, A Noted Cleveland, *11—Feeding and Watering, 57—Hackney, *238—High-Priced, *238,—in Hot Weather, 330—Messenger—Morgan Cross, *101—Percheron, * 143—Clipping in Cold Weather, 463—Cultivating Colt Courage, 570—Shoeing, Hints on, 239—Suffolk-Punch Breed of, *191.
Horseradish.....277
Horticulture on the Plains...98
Horticultural Society, The Royal.....237
House Costing $3400, A Country.....*..339
Houses, Prairie Grass.....101

HOUSEHOLD THE:
B Baby Loving the, 294—Bag for Soiled Collars and Cuffs, *207—Hanging Piece, *432—Bed Quilt, Embroidered, *575—Bed Spread, A Novel, *344—Blue Jay, The American, 575—Bonnets and Round Hats, Spring, 206—Book Holder, A Wire, *69—Border, A Handsome Drawn Work, *158—Bulbs for the Sitting Room, 578.
C Cabinet, Wall, China, *25—Calendar, A Perpetual, *25—Canaries, Paste for Young, 574—Carpets, Putting Down, *384—Case, Comb and Brush, A Serviceable, *432—Handkerchief, A Novel, *115—Catch-All, A Birch Bark, *24—Chair Bottom, Home-made, 159—Chairs, Fancy, Home-made, 432—Church, A Quaint Old, *434—Children's Corners, 250—Something to do, 435—Chocolate, 295—Christmas Greens, *577—Christmas, Merry, A, 574—Christmas Gifts for Small Purses. 577—Gifts, A Variety of, *575—Clothesline, Ornamental Supports for a, *294—Cobwebs, Ornamental, *294—Convalescents, Care of, 435—Tempting Food for, 481—Crochet and Knitting, 384—Cushion, A Neat Hair-pin, *250—Hanging Pin, *576.
D Damper, How to Use a, 578—Dishcloth, A Knitted, 483—Dresses, for Midsummer, Inexpensive, 345—Dumb Waiter, A Farmhouse, *207.
E Edge, Knitted, 483—Wide Knitted, 69—Embroidery, Perforated Felt, *206—Damask, *344.
F Family Anniversaries, Remember the, 114—Flour Chest, A Convenient, *68-*159—Fashions, Early Fall, 385—For Little Women, 574—Fashions, Juvenile, 68—in Hats and Cloaks, 483—Summer, 294—the World of, 14.
H Head-rest, A Comfortable, *294—Holder, A Neat Coffee Pot, *433—Holiday Words, 574—Home, Woman's Realm, 250—Housekeeping, Ideal, 206
J Jet Ornaments, Home-made,
L *384—Lace, Fan, *480—Irish, *480—Weaver Bird's, *576—Little Folks Are Wearing, What, 250.
M Mats, Sea Shell Vase, 518—Mantel Drapery, Ornamental, *68—Medallions, Crocheted, 25—Mirror Ribbons, *114—Money, Teach Children the Proper Use of, 68—Mothers, Timely Hints for, 575.
N Napkin, Fancy, *294—Needle Book and Button Bag, *251—A Celluloid, *206—Night Caps, 384—Novelties, 481.
P Paper Rack, A Pretty, *344—Picture Frame, Home-made, *114—Pillow Shams, Pretty, *385.
Q Quickly Made and Useful
R Things, 24—Reading, A Word to Mothers About, 574—Robe, A Handsome Carriage, *385—Sachet Powders, 480—Sachet, 386—Scarf, Chair, *433—Socks, Crocheted, *295—Schooner, The Prairie, *482—See, Learning to, *482—Sofa Cushion, A Handsome, *251—Screen, Threefold, *114—Shelf, A Convenient, *115—Sideboard, a Bureau, *69—Sleeve Holder, A Serviceable, *206—A, *433—Something to be Thankful for, 481—Spring Styles, 158—Sponge Bag, Water Proof, *576—Stockings, How Came Into Use, 480—Stocking Legs, Economical Use of, 481—Summer Resort, An Inexpensive, 435.
T Table, Kitchen, A Home made, *207—Tidy, A Serviceable, *345—Towels, Fancy, *345—Traveling Case, A Convenient, *250—Trap, A Good Animal, *251—Tray, Sachet, for Jewelry, *115—Trimming, A Neat Knitted, *24—Truths Briefly Stated, 482.
U Unnecessary Work, 344—
W Wall Closets, Ornamental Hangings for, *24—Wall Protector, Lace Trimmed Linen, *25—What to Wear in October, 433—Whisk Broom Case, An Ornamental, *158—Whisk Holder, A Guitar, *69—Work Basket, An Inexpensive, *295—Window Curtain, A Novel, *68—Winter Gowns and Cloaks, 24—Wood, Burning Dry, 576—Work Bag, A Neat, *385.

Recipes: Apoquinimies, Lady Skipwith's, 386—Apple Compote, 386—Beefsteak, Spanish Style, 435—Boston Brown Bread, 159 Breakfast Cakes, Indian, 24—Cake, Brown Sponge, 159—Cakes, Almond Cheese, 386—Chicken, Fillet of, 69—Chickens, Boiled, With Celery Sauce, 578 Crescents, Vanilla, 25—Crullers, Rich, 435—Drink for a Convalescent, A Delicious, 159—Eggs, Baked, 345—Beauregard, 345—Fritters, Spanish, 25—Game Pie, 483—Giblet Soup, 483—Gingerbread, 345—Nuts, 386—Goose, Braised, 483—Haddock, Baked, 295—Halibut Fillets, 115

—Hamburg Smoked Beef and Ham, 578—Hare Soup, 578—Kidneys, Fried, 345—Oyster Omelets, 435—Oysters a la Poulette, 115—How to Cook, 483—Peas, Green, 295—Pie-Crust, always Reliable, 207—Potatoes, Parsleyed, 207—Bread and Butter Pudding, 578—Pudding, Cherry, 295—French Custard, 435—German Potato, 578—Steamed, 344—Sponge Cake, 386—Rabbit Soup, 69—Rhubarb, Baked, 295—Rice, Creamed, 25—Strawberries In and Out of Season, 251—Veal, Mirotonof, 435—Waffles, Corn Meal, 207.
HUMBUGS, SUNDRY:
A Advertisements Which Deceive, 173—Agents' Directory, 173—Agricultural Papers, 32—Anatomical Study, 77.
B Bald-headed, A Word to the, 219—Bare Faced Fraud, 354—Bohemian Oat Swindle, 32-127.
C Catarrh Cure, 263—Cattle Buyers, Bogus, 354—Charm, A Bogus, 77—Chautauqua Ensilage, 403—Coon, The Same Old, 219—Cranberry Trade, Tricks of the, 32—Crayon Portraits, 403—Crazy Quilt Supplies, 173.
D Doctors, Rivals, Two, 173—
E English Farmer Duped, 354—Electricity, "Double and Moist," 305—Electroboll, 77—Envelopes, Insults on, 354—Extending His Practice, 173—Florida Lands, Speculation in, 451.
F Fortune, Hunting for a, 354—
G Fuel, Magic, 173—Green Goods, 263-305—Groceries, Buying Cheap, 497—Generous Offers, Victims of, 263—Yellow Goods, 263.
H Home Employments, 77-127—Horses Boarded, He Wanted His, 451—Humbugs, with a Family Likeness, 219.
I Insurance Agents, 77—Farmers' Mutual, 472—Schemes,
J Misleading, 263—Jewelry, The, and Your Money Back, 497.
L Ladies' Companion, 173—Land and Improvement Companies, 263—Scheme, A New One, 593—Lottery, The Louisiana and a Victim of, 219.
M Mining Sharks, 451—Money at
N Four Per Cent, 173—Needle Work and Lace Companies, 263—Not a Humbug, 451.
O Oculists, Itinerant, 263—Old Sam in a New Guise, 173.
P Progressive Contributions, 497 Professor, Look out for the, 77—Profit by His Loss, 593—"Peroxide of Silicates," 305
S Sawdust Swindlers, 32-77-497 Sewing Machines Given Away, 173—Soap Man Abroad, 593—Song Bird Swindle, 32—Speculative Syndicate, 497.
T "There's Millions in It," 593—Time to Stop This Thing, 32—Topolobampo Colony, 354—Trading on the Affections, 173—Traveling Doctor, Beware of the, 32.
V Van Raub in a New Role, 32—
W Watch, Swiss Winding, 77—Watches, Bogus, 32—Weather Plant, A, 593—Wheat Swindlers, Oregon, 32—Wheat at Ten Dollars a Bushel, 354.
Cautionary: Belts, Electro Magnetic, 32—Bible Verses, supplying, 32—Building Lot with Magazine for One Dollar, 77—Danger Signals, 403—Florida Land, Giving Away, 77—Insurance, Untrustworthy, 263—Standard Pants Co., New York, 219—Telegraphy Learning, 127—Temptation, Leading into, 263.

I

Insects, Allantus and Rosebugs, 280—Apple Tree Borer, The Round Headed, 47-351—Worm or Codlin Moth, 370—Ants, Remedy for, 240—Beetle, Asparagus, 140-351-587—Elm Tree, The, 444—Beetles, Blister, 405—Beetles, Potato, 351—Beetles, May, 367—Cabbages, Lice on, 197—Worms on, 149—Caterpillar, The Red-humped, 444—Caterpillars, Grape Vine, 351—Chinch Bug Pest, *286—Corn Pest, A New, 405—Cotton Worm, 14-351—Currant Worms, Remedy for, 232—Flour Worm, 14—Hop Plant Louse, 50—Moth, Emperor, The, 444—Moths, Wood and Meal, 444—Plant Lice and their Enemies, *142-194—Scale in Hawaii, 405—Slugs, Cherry, 351—Verbena Aphis, 140—Weevil, Chestnut, 444—Wire Worms and Sorrel, 492.
Ice Harvest, The....56
Ice House, A Cheap, *565—Filling the, 12.
Insurance, Among Farmers, Mutual....427
Irrigation, 501—Profitable, 111.

J

Java, A Fete Day in.....*..508
Judd, Hon. David W., Sketch of the.....*..89

K

Kitchen and Market Garden, Jan., 2; Feb., 46; March, 88; April, 136; May, 184; June, 228; July, 302; Aug., 351; Sept., 362; Oct., 410; Nov., 458.

L

Lands, Clearing Pine.....587
Lands, Grass, With and Without Manure, 558—Weeds in, 560.
Lard, Press, A Lever.....*..203
Laws, Beneficial.....54
Leopard, A Family of Kittens.....*..298
Lime, When to Apply.....586
Line, Improved Garden...*..100
Live Stock Notes for Jan., 2; Feb., 46; March, 88; April, 136; May, 184; June, 228; July, 272; Aug., 322; Sept., 362; Oct., 410; Nov., 458; Dec., 554.
Louisiana, Southwestern....396

M

Manure, 448—Deodorizing Stable, 489—Storage of, 141—Saves Manure, How, 492.
Manures, Keeping.....586
Maple Sugar, Making, *10—Pans, Cleaning, 140.
Maple Syrup, Making and Cleaning, 51—Packing and Marketing, 110.
Market Garden, The Farm, March, 96—April, *142; May, 191.
Market Gardens in France...186
Milk, Adulteration of, 186—Amount of Fat in, *349—and Butter, Great Yield of, 306—Care of, in Dairies, 151—Giving, Reserve Power in, 461—Management of, in the Home Dairy, 17.
Minnesota, the Season in, 396—Northern, 487.
Mississippi's Mistake.....350
Montana, Northern, the Outlook in.....396
Morton, John Chalmers, Death of.....*..333
Mother-of-Pearl, Fishing for..298

N

New Year Memories.....*..28
North Carolina, The Piedmont Region in.....396

O

Oats, 138—Without Harrowing, Sowing..417.
Odds and Ends,.....212
Oleomargarine in Various Lights, ...266
Onion Culture on the Farm,...150
Raising in Dakota.....*378
Onions and Onion Sets, How to Keep,.....416
Onions and Cabbages,.....488
Orange Grove in Florida, Starting An,.....200
Orchard and Fruit Garden, Jan. 2; Feb. 46; March, 88; April, 136; May, 184; June, 228; July, 302; August, 322; September, 395; October, 410; November, 458; December, 554.
Orchard Registers,.....100
Ostrich Farming at the Cape and in California,.....266

P

Palm, A Florida Cocoanut,....*21
Palms, Our Native,.....479
Paper in Germany,.....278
Paragraphs, Pithy,.....256
Pastures, Permanent,.....97
Supplementing,.....229
Peach growing in New England, 47
Peach Tree, Enemies of the....96
Pear, Lucy Duke, The,.....*16
Idaho, The,.....*563
Wilder, The,.....*419
Peas Cow, At the North,.....61
Green, in Autumn,.....342
Pecan Nut, The,.....95
Peccary, The Collared,*.....374
Persimmons in Florida, Japanese,.....*18
Periwinkle, The Madagascar...23
Pets, Our Caged,.....381
Petroleum in Russia and the United States,.....242
Pig Hospital,.....*282
Piggery, A Convenient,.....*379
Pig Pens for Breeders and Feeders,.....193
Pigeons Carrier,.....*53
Varieties of Fancy,.....*470
Pineapple Culture in Florida, 426
Plants, Aloes American, The Agaves, 479—Aloes in Florida, The Culture of, 281—Chiccory as a Weed, 293—Citrus, A Hardy, *112 Coffee as a Decorative, *247—Cucumber, The Snake, *113—Herbaceous, A New, 464—House, Keep Clean, 52—Maples, Japanese, as a Decorative, 67—Mulberry Russian, A Weeping, *144—Nitrogen from the Air, Do Get, 276—Peppermint Culture, 205—Potted, Best Soil and Fertilizer for, 451—Plum, A New Ornamental, *343—Rhododendrons, Hybrid, 236—Sub Tropical Knot Weeds, *249—Sweet Scented Shrubs, *66—To Grow, 329—Vegetable Soaps, *157—Window Plants, Forcing, 50—in September, 398—Yuccas as Ornamental, *382.
Plantain in Grass Land,.....416
Planting Close, Evils of,.....477
Fall or Spring,.....368
Plum, Black Knot in.....292
Purple Leaved,.....140
Poisons in the Gardens,.....230
Pole Drains,.....*60
Pomological Society, The American,.....164
Pop Corn and Succotash,.....324
Ponds or Porous Soil, Making, 289
Post Lifter, A Good,.....*56
Potato, A New Prolific,.....562
Yield, A Big,.....498
Potatoes and Potatoes,.....283
Storing,.....568
Sweet and Onions,.....*329
Puget Sound Country, The....501
Poultry, Bantam Family, The, 325—Broilers, Raising Early, 103—Chickens, One Woman's Profitable, 153—Brooder, Orphan Asylum for, 199—Downs, The, *103—English Red Caps, *9—First Winter in Raising, The, 570—Feeding for Winter Eggs, 9—For Profit, 139—Guinea Fowls, *413—How to Make Pay, 139—Houdans, The Mental and Moral Qualities of, *279—Improvement in Farm, 340 In Ireland, 53—In Summer, 356—Interests, National, 120—Kill and Dress, How to, 328—Management in Denmark, 422—Moulting of, 467—Non Sitting, Breeds of, *231—Points of, The, *477—Raising Profitable, Can Woman Make, 53—Setters Should Have, 9—Thoroughbred, Breeding and Feeding, 327—Grade, Reforms Need in the, 491—Watering Trough for, *286—Winter Feeding of, 14—Wyandotte Golden, *199—Silver, *381.
Poultry, Geese, Chinese and Egyptian,.....*557
Poultry Exchange, Exhibition New York,.....30
Poultry Farm, Plan For a Woman's,.....368
Poultry Fence, How Girls May Build a,.....232
Poultry House, Cheap and Serviceable,.....571
A Tennessee,.....*193
Poultry Houses, Dry Floors for 102
Poultry Turkeys, Mammoth Bronze,.....*139
Prairie Dogs and their Young, *252
Killing,.....335
To Get Rid of.....334
Premiums Description of 515-550
Prices, To Get the Best,.....322
Progress in South Africa,....212
Profession, A New,.....443
Prunes, Washington Territory, 200
Public Lands, The New Act Relating to,.....380-394

Q

Quarantine, The New York,....*4
Quince, Propagation of the *188-.....*237
Quintin, The Game of.....330

R

Rabbit, Pest, Fighting the,....451
War in Australasia, The,....235
Ranching in Canadian Northwest,.....487
Rake, A Horse, for Brush,....329
Railroads and National Development,.....12
Ramie and its Preparation....274
Industry, Progress in the,...417
Reminders Seasonable,.....64
Rest, Have a Day of,.....55
Rice, Vitality of the Seeds of,..18
Road Making in the Prairie States,.....242
Rock Work, An Example,....*293
Rye as a Green Manure,.....332

S

Saw-Buck, An Improvement in,.....*475
Savings Banks, Loans and the Farmers,.....243
Seed Dropper, A Serviceable, *276
Seed Harvest of 1888, The...587
Seeds, Improvement of, by Selection.....364
Shad, Habits and Culture....94
Sheep, Australian Mutton, 50—Big Horn or Mountain, *146—Crossing Wild with Same, 429—Dorset Horned, The, 155—Exmoor, A Vanquishing Race, *150 Fattening in Winter, 586—Good Prices for, 350—Hampshire Down, *327—Lank Withers, 17—Leicesters, The, *97—Middle Wooled, Breeds of, *51—Merino, American, *283—Oxford Down, *243—Shropshire Breed, *370
Shelter Belts for the Plains...568
Short Stops.....94
Showers in April.....146
Signal Service, The Improvement of the.....300
Silo Wall, A Cheap.....429
Sounds of a Summer Night..347
Stable Floor.....377-566
Station, Experiment, The California.....465
Stations Must Help the Farmers.....491
What Experiments are Doing for Agriculture.....494-590
Statistical Facts of Interest to Farmers,.....138
Stock, Clean, Without Bedding, 373—Fall, Care of, 491—Fall and Winter Feeding of Young, 411
Stool, A Folding.....*106
Stone-Boat, A Combination..*61
Storage, Houses, Cold.....50
Strawberry, the Gandy.....*375
Strawberries, Promising New *336
Straw Stack, Protection for the.....*56
Straw Feeding.....468
Shelters.....556
Strikes, Do. Pay.....110
Stuartias, Native and Foreign *573
Sub-Tropical Exposition, Florida, 120-214—Notes on 368—Reminiscences of the, 331
Sugar, Can We Grow Our Own, 48—Production, Consumption and Cost, 246
Sweet Corn, An Abundance of 232
Swine, Bedding Place for, in Pastures, 230—Berkshire Improved, *93—Breed of, Best, 198—Breeds of, Modern Requirements in, 93—Breeding, Care of, 556—Butchering, Hints About, 466—Cooked Food for, 412—Cooked Food for Experiments in, 278—Duroc, Jersey, *469—Feed Required for One Hundred Pounds of Pork, 566—Feeding for Fat or Lean, 287—Young Pigs, 187—How to Have Healthy, 462—in the Orchard, 421—in-breeding of, 488—Industry, Importance of Our, 155—Keeping One Pig, 424—Old Time Method of Raising, 146—Poland China, *187—Royal Farm, From the, *55—Shelter for Young, *282—Sows Eating their Pigs, 282—Suffolk-Berkshire, *8—Water for 234—What to do with the Runts, 230—Yorkshire, Small, 341
Swill, To Keep from Freezing,..8

T

Tar Paper,.....140
Then and Now, Franklin on Oxen.....64
Thistles, Canada, Killing, 587—How to Kill, 372
Ties, Secure,.....*144
Timber Land, Breaking.....*374
Tightener for Barbed Wire...*98
Tomatoes, Culture in Florida, 514—Discovered, The "Black Spot," *16—Fixing Varieties, 150—In Pertection, How to Grow, 186—Training, 338
Tongs for Moving Stones.....98
Trap, a Home-made Mole, *288—Mouse, a Cheap, 586
Trees, Allantus, 95—American White Birch, *247—Elms, Destruction of, 258—Fall Planting of, 490—Forest from Seed, 245—For Fuel and Timber Cutting, 56—How to Plant, 192—Kalmia, Transplanting the, 203—Label, Ineffaceable, *145—Moss on Fruit, 326—Protection by, 140
Trough Under a Pump Spout, A.....*475
Truck Wagon, Farm.....*145

U

Uncle Sam.....299
Understanding, The Value of 249

V

Vegetables Changed by Changes in Climate, 563—Climatic Influences upon, 429
Values, Nutritive.....325
Vine, in California, The, 50—Product in California, 293
Vinegar, The Johannisberg..464
Vineyards, Chautauqua Co....567
Vinegar, Cider.....420

W

Wagon Jack, A Strong.....*106
Washington Territory, Wasteful.....487
Water Jug, Box for.....*288
Water Spouts and Cyclones...201
Watering Troughs, Improvement in.....*19
West Virginia, Progress in...396
Wheat and its Products in the Mill, the Growth of, 20-62-108-154-202-244-290-338-369
Wheat Crop in Dakota, The, 586—Competition of Indian, The, 338—Growing, British and American, 52—In England, 110—Of the United States, 194—To Prevent Winter-Killing of, 424—Winter Sowing, 349
Wheelbarrow on the Farm...341
Wine Industry in France, The 498
Work, Education Lightens...385

Index to Illustrations.

A

Allen, Lewis F.....49
Alps, Early Morning Call in the 195
Apple, Grange, The (2).....375
Merick, The.....56
Wolf River, The.....95
Autumn Day's Outing, An....458
Autumn.....409

B

Bag-holder.....107
Barn, Dakota, Evolution of a 476—for $300—A Small (2) 289—for two Horses (2) 329—for one Horse (2), 19 (2), 141—Hoist for a, 565—Horse and Carriage (3), 233—Octagon, A Capacious (3), 415—A Small (3), 63—with Basement (3), 109
Barn-door Fastener, Automatic 61
Barrow, A Light.....54
Blizzard, Caught in a Montana,.46
BOYS' AND GIRLS' COLUMNS:
Anemone, The Rue, 348—Axolotl, About The, 347—Berry Season, The, 227—Bertie's Letter from the Country, 390—Bird, How to Skin a (5) 437—Boyd's, Warren, Heroism, 436—Butter Cups and their Cousins (6), 299—Caltha (4), 253—Chickens, Counting the, 210—Christy and the White Dove, 484—Concert, An Interested, 346—Cripples, The Little, 485—Daisy (3), 389 (7), 448—Dandelion, 389—Dandy's Brother Dick (2), 116—Girls' Little Christmas Work, (4), 582—Hare, Alpin, at Home, The, 72—Jumbo Watching the, Baby, 254—Kittens, A Family of, 298—Look at Both Sides, 27—Luke Sharp's Quarter (2), 296—Margaret Mailing her Letter to Santa Claus, 581—May Queen, Crowning the, 208—Mollusks, Jar with, 27—Prominent Tentacles, 27—New Year Memories, 28—Prairie Dog sown, 253—Ranunulus, Flowers of the (4), 209—Santa Claus, I am (3), 579—Simple Tim, 387—Something for a Boy to Make, 581—Strawberry King, The, 252—Vacation, Reminiscences of a Summer, 438—Vassar College Buildings (2), 70—Violet, the Arrow Leaved (3), 348—Violets, Little Hattie's, 160 Wasp's Nest, 71—Wood Collections (3), 117—Woods in April (2), 161
Bruin at Bay.....26
Buffalo, Domestication of the, 561

C

Cart Hand, A Farm,.....198
Catch, A Sure.....321
Cattle, Aberdeen, Angus, Polled, The Typical, 151—Breton (2), 235—Chain Fastening for, 565—Charolaisi (2), 201—Chanina Bull, 377—Clothilde 4th's Imperial 1231, 461—Harz, The, (2), 7—Kerry, The (2), 417—Holstein-Friesian Bull, Nathaniel Prince, 30—Holstein-Friesians at Pasture, 467
Cattle, Jersey Bull Corinth 2d, 65
Cattle, Long-horned Bull, 337
Cattle, Netherland Baroness 2635, 465—Statesman 3280, 461—Ox, West Highland, A Native, 107—Piedmont, 377—Pleuro-pneumonia, A Victim of, 234—Red-polled, 555—Sussex, 275
Cattle Crib, an Improved....418
Corn Drying Smoke House (2), 363
Corn Masker, Adjustable.....203
Cottage, Suburban, Costing $1300 (3), 6—$3400 (3), 100—$2000 (3), 198—$2500 (3), 245—$3500 (3), 273—$3400 (3), 339—$3500 (3), 367—$3500 (3), 571
Creamery, A Dakota....(2)..559

D

Dairy Plan of a.....60
December.....553
Device for Keeping Water Cool 288
Dog, Setter, the Thoroughbred 111
Dogs, Scotch and Skye Terrier 291
Drains, Pole.....60

E

Eagle, The White-headed....118
Egg Basket.....152

F

Farm Buildings and Animals, Protection of.....281
Fence Corners, Proper (5), 152—Panel, Portable (4), 276—Picket, To Build a Picket, 152—Pole and Wire, 98—Row, My Neighbor's, 288—Wire, Tightening, 379—Wire and Picket, 106
Field, Diagram of a Three Acre 142
Flail, a Dakota.....374
Flower Beds, Carpet and Ribbon 22
Fork, Leaf.....54
Flowers and Plants, Aloes, American—The Agaves, 478—in Florida, The Culture of, 281—Bladder Nut, 205—Calycanthus, Floridus, 66—Calypso, The Northern, 292—Chunoranthus, 66—Cinquefoil, The Shrubby, 156—Citrus, A Hardy, 112—Carnations and Picotees, 431—Cockscomb, Elm Gall, 142—Coffee as a Decorative Plant, 247—Cucumber, The Snake, 113—Currant, Missouri, 204—Freesias, 342—Gooseberry, The Barbadoes, 572—Knot Weeds (3), 249—Lilium Callosum, 479—Mitre Wort, The False, 204—Narcissus, Old, New, and Rare (2), 189—Paconia, The Tree, 248—Periwinkle, Madagascar, 23—Pink of Glaciers, 479—Plum, "Pissards," 343—Primroses, The Evening (2), 156—Pulcher, Senecio, 112—Ranunculus, Aslaticus, 113—Ficaria, 113—Rose, The Many Flowered, 343—Star Flower, 204—Star of Bethlehem, The Arabian, 292—Stuartia, Japanese, 573—Virginian, 572—Valerian, Greek (2), 205—Veronia, Japanese, 112—Violets, Bedding, 23—Guccas (2), 382—(2) 383—Zinnia, The, 23
Fruit Table, Assorting.....379

G

Garden, Arizona, An.....67
Gate, A Well Braced.....419
George, Senator, of Mississippi 511
Grafting, Does the Cion Affect the Stock.....(3) 156
Grass, Crested Dog's-Tail....60
Grape, Moyer, The.....237
Grape vine, The First Concord and its originator.....(2) 323
Grape vine, Mills, in Bearing, A.....145
Gray, Asa.....99
Green, Seth.....442

H

Hay-rack and Feed-trough, Improved.....289
Harrows, Shoes for Moving (2) 374
Hilgard, Prof Eugene W.....423
Hop Culture in the Yakima Valley.....474
Hop-pickers, Indian, Going to their Work.....473
Horse, Charlie, Buffalo Bill's Famous, 365—Cleveland Bay Filly Hannah, 11—English Shire Stallion Masher, 57—Escamillo, the Prize Stallion, 331—Fayette Wilkes, 287—French Coach Horse, Franconi, 463—Guy, The Famous Gelding, 569—Hackney Mare, 239—Stallion, A Pure Breed, 238—Messenger, Morgan Stallion, Bermuda, 101—Percheron Stallion, Uriel, 143—

Rein for a Leading, 328—Suffolk Punch Mare and Her Foal, 190—Stallion, a Highbred, 191—West Australian, 425—Horse Rake for Brush, A, 329—Typical, Some, 463—Horse Evener, Three, 418—
Rein for a Leading, 328

HOUSEHOLD:

Apple Butter, Device for Making, 432—Bag for Soiled Collars and Cuffs, 207—Piece, A Hanging, 432—Water-Proof Sponge, 576—Bed Spread, A Novel, 344—Book-holder, A Wire, 69—Border, Drawn-work, A Handsome (6), 158—Cabinet, China Wall, 25—Calendar, A Perpetual, 25—Case, Comb and Brush, 432—Case, Traveling, A Serviceable, 250—Catch-All, A Birch Bark, 24—Christmas Gifts for every one, 575—Greens, Bringing Home the 577—Church, A Quaint Old, 434 Closet, Wall, Hanging 24—Clothes-line, Ornamental Supports for a 384—Cobwebs, Ornamental 294—Coffee-Pot Holder, 433—Cushion, Hair-Pin, A Neat 250—Pin, Hanging 576—Sofa, 251 Crib Quilt, Embroidered 576—Dumb-waiter, A Farm-house 207—Embroidery, Felt 206—Flour Chest, A Convenient. 159—A Serviceable, 68—Handkerchief Case, 115—Head-rest, A Comfortable 294—Jet Ornaments, Home-made (3) 384—Lace, Fan, 480—Irish, 480—Weaver Bird's, 576—Mantel Drapery, Ornamental, 68 Mirror Ribbons, 114—Napkin Decorated, 294—Needle Book and Button Bag, 251—Picture Frame, Home-made (2) 114—Pillow Shams, Design for, 385—Rack, Paper, A pretty 344—Robe A Handsome Carriage 385—Sachet, Tray for Jewelry, 115—Scarf Embroidered Bureau, 344—Schooner of the Western Pioneer, The 482—Shelf, A Convenient 115—Side Board, A Bureau 69—Sleeve-holder, A Serviceable 206—Socks, Crocheted 295—Table, Home-made 207—Towels, Useful and Ornamental 345—Trap, A Good Animal (2) 251—Trimming, Knitted 24—Whisk-broom Holder, 158—Whisk-holder, Guitar 69—Window Curtain, A Novel 68—Work Bag, Serviceable 385—Work-basket, An Inexpensive (2) 295—House Farm, A Small (2) 54—Husking Glove, Home-made (2) 418.

I

Insects, Chinch Bug....(3), 386
Ice-house, A Cheap.....565

J

January.....13
Judd, David W.....89

L

Label, Ineffaceable Tree.....145
Lakeside Farm at Syracuse, N. Y.....459
Lard Press, A Lever.....203
Line, Garden, Improved.....100

M

Maple Sugar House, A Plan of..10
May Day Outing.....183
Midsummer.....271
Milk, The Amount of Fat in (6).....349
Moose at Bay.....135
Morton, John Charles.....333
Mulberry, Weeping.....144

N

Nursery Stock, Large Block of 466

O

Onion Pit, Plan of.....378
Ox Cart, A Brazilian.....162

P

Palmer, Thomas W. of Michigan.....511
Palm, A Florida Cocoanut.....21
Pear, Idaho, The.....563
Lucy Duke, The.....16
Wilder, The..(2).....419
Peccary, Hunting the Collared 362
Pigeons, Carrier.....53
Pig Hospital,....(2)..... 282
Pig House,....(2).....328
Pig Pen, A Model Kansas.....193
Pigeons, Our Popular Fancy...471
Piggery, A Convenient..(2)...379
Pigs, Shelter for Little.....282
Post Lifter, A Good.....56
Potato, Rural New Yorker No 2.....562
Poultry, Bantams, Three Varieties of 325—Downies, The 103—Geese, Chinese and Egyptian 557—Guinea Fowls, 413—Houdans, 279—Non Setting, Breeds of 231—Points of, The 477—Red Caps, 9—Wyandotte, Golden 199—Silver 381—Turkey, Eureka, The Bronze 139—Poultry House, A Tennessee (3) 193.

Q

Quarantine, New York..(5)....4
Quince, Propagation of, by Cuttings and Grafting..(7)....188
by Layers and Budding,..(3),..237

R

Reins, How to Hold.....242
Rice, Seeds of.....18
Road-making in the Prairie States,..(2).....242
Rope Tie, Picket, Secure (3) 144

S

Saw-back, Serviceable.....475
Seed Dropper,.....276
Sheep, Big Horn, 147—Exmoor and Cross Bred, 155—Hampshire Down, (2) 327—Leicester Wethers, 97—Lonk Wethers, 17—Merino, (2) 283—Mountain, and its Cross 429—Oxford Down, 243—Shropshire, 370-371—Southdown Thoroughbred, The 51.
Shoulder Protector,.....141
Sled, Home-made, Farm.....61
Sod-house, A Dakota.....153
Spring, etc.....87
Stable, A Plain but Useful....373
Stone-Boat, A Combination....61
Stool, Folding A.....106
Straw Stack, Protection for the 56
Strawberry, The Sandy.....375
Strawberries, Promising New (3).....336
Swine, Berkshire-Suffolk, 55—Thoroughbred, 93—Duroc Jersey, 469—Poland China, 187—Yorkshire Middlesex, 55—Small, (2) 341.

T

Tiger's Leap,.....507
Tightener for Barbed Wire....98
Timber Land, Plow for Breaking.....374
Tomatoes, Bunch of affected by Fungus.....16
Tongs, Stone, Serviceable.....98
Trap Mole, A Home-made....288
Trough Under a Pump Spout, A.....475
Troughs Watering, Improvement in.....19
for Poultry,.....286
Tree, Birch, The American White.....247
Soap-bark, The.....157
Truck Wagon, Farm.....145

V

Vineyards, Chautauqua, View of the.....567

W

Wagon Jack, A Strong.....106
Wheat, The Growth of and its Products in the Mill, (3)....369
Winter Pastime, A Breezy.....1

Z

Zuni Plateau, Slope of the Wonderful.....510

THE AMERICAN MERINO

FOR WOOL AND FOR MUTTON.

A Practical Treatise on the Selection, Care, Breeding and Diseases of the Merino Sheep

—IN—

ALL SECTIONS OF THE UNITED STATES.

By STEPHEN POWERS.

CONTENTS:

Letter of Request.—Letter of Presentation.—From Spanish to American.—Form.—Fleece.—Blood.—Breeding.—Feed.—Pasture in the West.—A Mutton Merino.—Lambing.—Care of Ewes and Lambs.—Tagging, Washing, etc.—Shearing and Doing Up Wool.—Summer Management.—From Grass to Hay.—Selection and Care of Rams.—The Breeding Flock.—Sheep Houses and their Appurtenances.—Winter Management.—Feeding for Mutton.—From Hay to Grass.—Fodder for Sheep.—Systems of Sheep Husbandry.—Systems of Sheep Husbandry (Continued).—Systems of Sheep Husbandry (Continued).—Systems of Sheep Husbandry (Continued).—Systems of Sheep Husbandry (Continued).—Diseases of the Merino.—"Paper-skin."—Parasitic Diseases (Continued).—External Parasites.—Diseases of the Feet.—Diseases of the Respiratory Organs.—Diseases of the Alimentary System.—Blood Diseases.—Diseases of the Nervous System.—Diseases of the Urinary and Reproductive Organs.—Miscellaneous.

A practical and most valuable work on the selection, care, breeding, and diseases of the Merino sheep in all sections of the United States. It is a full and exhaustive treatise upon this one breed of sheep, and will be welcomed by all having any interest in sheep husbandry.

ILLUSTRATED.

CLOTH, 12mo. PRICE, POST-PAID, $1.50.

PLAY AND PROFIT

—IN—

MY GARDEN.

By Rev. E. P. ROE,

Author of "Barriers Burned Away," "Without a Home," "Nature's Serial Story," etc.

In the Author's Preface of this new edition he says:—"Play and Profit in My Garden" was the second book that I wrote, and perhaps into no other have I put so much of my own personality. As I read it now, after the lapse of years, it vividly recalls a period of life that would otherwise have been partially forgotten and indistinct. I wrote it in my early gardening enthusiasm, and much revision might take all the life, freshness and realism from the story, for it is a story of a garden. Manuals have been and will be written by the score, but few actual and truthful garden experiences have been related. There is a difference between a garden sermon and a garden biography. This book is the latter. It gives the ancestry of a garden, its small beginning, growth and maturity. Although the reader may regard it as one of the "short and simple annals or the poor," he may also conclude that if a garden could be made in the ground, much of which was so unpromising, there would be a better chance for him with his superior land.

PRICE, POST-PAID. $1.50.

Farm Appliances.

DESCRIBING NUMEROUS

Useful and Labor-Saving Appliances,

Which will be Found of Great Value in every Department of Farm Work.

This new volume contains valuable hints for every farmer, all practical and made plain by the large number of illustrations. Most of the appliances are of such simple construction, that any one, handy in the use of a few tools, can make them, and so find profitable employment on rainy days, or during the leisure time of winter.

CHAPTER I.—Racks, Mangers, Stanchions, Troughs.
CHAPTER II.—Vehicles, Rollers, Harrows and Markers.
CHAPTER III.—Small Tools and Appliances.
CHAPTER IV.—Appliances for the Barn, Pasture and Dairy.
CHAPTER V.—Wells, Pumps, Cisterns and Filters.
CHAPTER VI.—Appliances for Handling Hay and Corn Fodder.
CHAPTER VII.—Stump Pullers, Derricks and Slings.
CHAPTER VIII.—Preparing and Handling Fertilizers.
CHAPTER IX.—Appliances for the Garden and Orchard.
CHAPTER X.—Appliances for Slaughtering Hogs and Curing the Meat.

NEARLY 250 ILLUSTRATIONS.

CLOTH, 12mo. PRICE, POST-PAID, $1.00.

The Propagation of Plants.

GIVING THE PRINCIPLES WHICH GOVERN THE

Development and Growth of Plants their Botanical Affinities and Peculiar Properties.

—ALSO,—

Descriptions of the Process by which Varieties and Species are Crossed or Hybridized, and the many Different Methods by which Cultivated Plants may be Propagated and Multiplied.

Author of "The Grape Culturist," "The Small Fruit Culturist," "Practical Forestry," etc., etc.

ILLUSTRATED WITH NUMEROUS ENGRAVINGS

CLOTH, 12mo. PRICE, POST-PAID, $1.50.

ARE YOU GOING TO BUILD?

HOMES

—FOR—

Home-Builders.

Or Practical Designs for Country, Farm and Village.

Edited by DAVID W. KING, Architect.

With Nearly Two Hundred Illustrations.

NOTICES BY THE PRESS.

It embraces designs by eminent architects and others, classified and arranged in order to meet the wants of those who reside in the country, and are unable without difficulty to secure the services of skilled architects.—*Mirror and American* (Manchester, N. H).

A most valuable work of 250 pages, and plans for all buildings, from a hen house, piggery, horse and cattle barn, to one of large dimensions, and of a $6000 mansion; plans for all buildings that any one may need.—*Western Farmer* (Wisconsin).

It presents a variety of designs which cannot fail to prove of value to all who anticipate building, the more especially as specifications, bills, quantities and estimates of cost are given. The chapter on useful memoranda for estimating is alone worth the price of the book.—*The Weekly World* (New York).

Of special interest to those who are planning to build.—*New York Observer.*

It contains a complete series of rural buildings, with cost of home in each case. The series of plans for barns and other outbuildings is also very complete. Many are given with all needed details and specifications, from barns costing several thousand dollars to humble shelters, either for temporary use or for the needs of farmers where winter is never severe.—*Minnesota Farmer.*

In each case the cost of the house is given as accurately as possible. The portion of the work devoted to dwellings includes minute and specific directions for the erection of adobe buildings and houses for pioneers; comfortable and substantial houses which home-builders in the far West may erect with their own hands.—*Pacific Rural Press.*

Not only is the building of houses, cottages, churches, school-houses, barns, poultry houses, wood and tool houses, etc., been considered, but the aspect, site, exposure, drainage, plumbing, heating, ventilating, colors, papering, furniture, shrubbery and gardening.—*Fremont* (Ohio) *Journal.*

It is a practical book, is clearly defined, and beneath its covers may be found much of value and importance to those building or contemplating building in the country.—*Nebraska Cultivator.*

A practical guide of no little value to people living in the country. The illustrations are much to the point, and the author's introductory hints on important things to be considered in building a house can be read with advantage by those for whom the book is intended.—*Boston Daily Advertiser.*

A very practical treatise on house building. It contains many designs and plans for houses ranging in cost from the plainest hut at $100 to an elegant mansion for nearly fifty times that sum.—*New England Farmer* (Boston).

CLOTH, 12mo. PRICE, POST-PAID, $1.50.

Practical Floriculture.

A Guide to the Successful Cultivation of Florists' Plants for the Amateur and Professional Florist.

By PETER HENDERSON.

CLOTH, 12mo. PRICE, POST-PAID, $1.50.

ORANGE JUDD CO., 751 Broadway, New York.